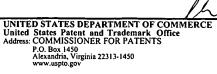


United States Patent and Trademark Office



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,978	03/02/2004	Charles I. Zovko	28082.120	2131
7	590 03/23/2006		EXAM	INER
Paul F. Willie			QUARTERMAN, KEVIN J	
Durel Division 2225 West Chandler Boulevard			ART UNIT	PAPER NUMBER
Chandler, AZ	85224		2879	
			DATE MAILED: 03/23/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/790,978	ZOVKO ET AL.
		Examiner	Art Unit
•		Kevin Quarterman	2879
Period for	- The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address
A SHO WHICI - Extens after S - If NO - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DA sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, sply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)□ 3)□ :	Responsive to communication(s) filed on <u>02 Mar</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Dispositio	on of Claims		
5)□ (6)⊠ (7)⊠ (Claim(s) <u>1-15</u> is/are pending in the application. Italy Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-4 and 6-15</u> is/are rejected. Claim(s) <u>5</u> is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.	
Application	on Papers		
ד (10 י	The specification is objected to by the Examine The drawing(s) filed on <u>02 March 2004</u> is/are: a Applicant may not request that any objection to the CREPIACEMENT TRANSPORT OF THE CONTROLL OF THE OATH OF DECLARATION IS OBJECTED TO BY THE EXAMENT OF THE SPECIAL	a)⊠ accepted or b)⊡ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority u	nder 35 U.S.C. § 119		
a)[;	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau ee the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage
2) 🔲 Notice 3) 🔯 Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date <u>0304</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 8-9 and 11-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Burrows (US 2004/0145089).
- 3. Regarding independent claim 8, Figure 1 of Burrows shows an electroluminescent panel comprising a release layer (102); a first insulating layer (104) on the release layer; a plurality of lamp layers (106, 108, 110, 112) on the first insulating layer; and a second insulating layer (114) overlying the lamp layers; wherein at least one of the lamp layers includes a UV-cured resin and the remaining layer layers include a heat-cured resin (pg. 12, ¶ [0144]).
- 4. Regarding claim 9, Burrows discloses the first insulating layer and the second insulating layer including UV-curable resin (pg. 3, ¶ [0039]).
- 5. Regarding claim 11, Burrows discloses one of the lamp layers being a cascading layer made from a UV-curable ink (pg. 5, ¶s [0059]-[0061]).
- 6. Regarding claim 12, Burrows discloses the first insulating layer including a cascading dye (pg. 8, ¶ [0092]).

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7. Regarding claim 13, Burrows discloses the first insulating layer including a cascading dye (pg. 8, ¶ [0092]).

8. Regarding claim 14, the Examiner notes that the mere duplication of electrodes has no patentable significance unless a new and unexpected result is produced (MPEP § 2144.04 VI (B)).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 11. Claims 1-4, 6-7, 10, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burrows (US 2004/0145089) in view of Eckersley (US 5,770,920).
- 12. Regarding independent claim 1, Figure 1 of Burrows shows an electroluminescent panel comprising a release layer (102); a first insulating layer (104)

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on the release layer; a plurality of lamp layers (106, 108, 110, 112) on the first insulating layer; and a second insulating layer (114) overlying the lamp layers.

- 13. Figure 1 of Burrows teaches the limitations of independent claim 1 discussed above but fails to exemplify the first insulating layer and the second insulating layer including low molecular weight PVDF/HFP resin.
- 14. Eckersley, also in regards to claims 10 and 15, teaches that it is known in the art to provide electroluminescent panels with insulating layers including low molecular weight PVDF/HFP resin for preventing the rear electrode from shorting to an external material (col. 4, In. 45-51).
- 15. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the electroluminescent panel of Burrows with insulating layers including low molecular weight PVDF/HFP resin, as taught by Eckersley, for improving the lifetime of the device, since the selection of a known material based on its suitability for its intended use is within the skill of a worker in the art (MPEP § 2144.07).
- 16. Regarding claim 2, Burrows discloses at least one of the lamp layers including a UV-cured resin and the remaining lamp layers include a heat-cured resin (pg. 12, ¶ [0144]).
- 17. Regarding claim 3, Burrows discloses one of the lamp layers being a cascading-color layer made from a UV-curable ink (pg. 5, ¶s [0059]-[0061]).
- 18. Regarding claim 4, Burrows discloses the first insulating layer including a cascading dye (pg. 8, ¶ [0092]).

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19. Regarding claim 6, Burrows discloses the first insulating layer including a cascading dye (pg. 8, ¶ [0092]).

- 20. Regarding claim 7, the Examiner notes that the mere duplication of electrodes has no patentable significance unless a new and unexpected result is produced (MPEP § 2144.04 VI (B)).
- 21. Regarding independent claim 15, Burrows also discloses a cellular telephone including at least one electroluminescent panel, the electroluminescent panel not including a substrate but is formed on a release layer that is removed and not included in the telephone (pg. 7, ¶ [0078]; pg. 11, ¶ [0120]).

Allowable Subject Matter

- 22. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 23. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record neither shows or suggests an electroluminescent panel comprising, in addition to other limitations of the claim, at least one bus bar including low molecular weight PVDF/HFP resin and a conductive filler.

Conclusion

24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Bush (US 6,787,993) discloses ink including low molecular weight PVDF/HFP resin. Kosa (US 6,198,216) discloses an EL lamp with improved

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interfacial adhesion. Mori (US 5,882,806) discloses an EL element with moisture-proof coated phosphor. Wu (US 6,771,019) discloses EL laminate with patterned phosphor.

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kevin Quarterman whose telephone number is (571)

272-2461. The examiner can normally be reached on M-TH (7-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Kevin Quarterman Examiner

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Primary Examiner

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